(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 6 October 2005 (06.10.2005)

PCT

English

English

(10) International Publication Number WO 2005/092868 A1

- (51) International Patent Classification7: C07D 251/68, D21H 21/30
- (21) International Application Number:

PCT/IB2005/000407

- (22) International Filing Date: 17 February 2005 (17.02.2005)
- (25) Filing Language:
- (26) Publication Language:
- (30) Priority Data:

04005210.2 5 March 2004 (05.03.2004) EP

- (71) Applicant (for all designated States except US): CLARI-ANT INTERNATIONAL LTD [CH/CH]; Rothausstrasse 61, CH-4132 Muttenz 1 (CH).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): JACKSON, Andrew Clive [GB/GB]; 25 WALTON PARK, HARROGATE HG3 1EJ (GB).
- (74) Agent: DÜNNWALD, Dieter; Clariant International Ltd, Rothausstrasse 61, CH-4132 Muttenz 1 (CH).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, $TM,\,TN,\,TR,\,TT,\,TZ,\,UA,\,UG,\,US,\,UZ,\,VC,\,VN,\,YU,\,ZA,$ ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CONCENTRATED OPTICAL BRIGHTENER SOLUTIONS

(57) Abstract: The instant invention relates to concentrated aqueous solutions of hexasulphonated stilbene optical brighteners which are storage-stable in the absence of solubilizing agents like urea. By removal of salts resulting from the preparation of the optical brightener one can obtain a concentration of up to 0.350 mol/kg without losing storage stability. The reduced water content enables coating compositions which require less drying energy and which show less water and binder migration into the paper.



